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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/559,918	12/07/2005	Marko Leinonen	915-007.172	9575
4955	7590	08/01/2007	EXAMINER	
WARE FRESSOLA VAN DER SLUYS & ADOLPHSON, LLP BRADFORD GREEN, BUILDING 5 755 MAIN STREET, P O BOX 224 MONROE, CT 06468			LIU, HARRY K	
		ART UNIT	PAPER NUMBER	
		3662		
		MAIL DATE	DELIVERY MODE	
		08/01/2007	PAPER	

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>
	10/559,918	LEINONEN ET AL.
	Examiner Harry Liu	Art Unit 3662

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) Responsive to communication(s) filed on 17 July 2007.
- 2a) This action is FINAL.                    2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) Claim(s) 1-16 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) Claim(s) \_\_\_\_\_ is/are allowed.
- 6) Claim(s) 1-3, 6-10, 13-16 is/are rejected.
- 7) Claim(s) 4,5,11 and 12 is/are objected to.
- 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on 27 December 2005 is/are: a) accepted or b) objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All    b) Some \* c) None of:
  1. Certified copies of the priority documents have been received.
  2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- 1) Notice of References Cited (PTO-892)
- 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) Information Disclosure Statement(s) (PTO/SB/08)  
Paper No(s)/Mail Date 12/07/2005, 06/27/2007.
- 4) Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_.
- 5) Notice of Informal Patent Application
- 6) Other: \_\_\_\_\_.

**DETAILED ACTION**

***Claim Rejections - 35 USC § 102***

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1-2, 8-9, 15-16 are rejected under 35 U.S.C. 102(e) as being anticipated by King (2004/0239559).

Regarding claims 1, 8, 16, King discloses a GPS receiver and a TDMA transceiver in one unit. A TDMA/GSM transceiver inherently has a tuning component and switching component for tuning and shifting from first frequency band to second frequency band when handoff is initiated; a controlling portion causing the tuning and switching component to shift from one frequency to another in case a wideband (TDMA/GSM is considered wideband to AMPS system) noise (co-channel or adjacent channel interference detected).

Regarding claims 2, 9, King discloses the GPS and TDMA transceiver are in one single device and the device is aware that the wideband noise is coming from the transmitter (paragraph 0006).

Regarding claim 15, King discloses a telephone (TDMA) with GPS receiver, the receiver has an antenna for receiving and a processor (processing) (paragraph 0005)

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GPS signal; a control responsive to operation of telephone acting for providing control signal (blanking signal) (Abstract). The TDMA transceiver inherently includes a tuning component to shift frequency.

***Claim Rejections - 35 USC § 103***

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 3, 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over King (2004/0239559).

Regarding claims 3, 10, King discloses GPS receiver antenna (first antenna) and TDMA transmitter antenna (second antenna) in one device but King fails to disclose specifically disconnecting second antenna (from TDMA transmitter antenna) from second receiving chain. However, King discloses sending blanking signal to GPS (first receiving chain). It would have been obvious to modify King by disconnecting second antenna from second receiving chain in order to stop transmitting noise to GPS receiver (by disconnecting TDMA antenna for receiving also disconnect the transmitting part).

5. Claims 6-7, 13-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over King (2004/0239559), as applied to claims 1,8 above and further in view of Turney (5678169).

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Regarding claims 6-7, 13-14, King discloses GPS and TDMA with its individual antenna. King fails to disclose the receiver is a GPS receiver (claims 6, 13) or the first frequency band is L1 and second frequency band is L2 (claims 7, 14). However, Turney teaches a dual frequency GPS system by sharing one antenna for both L1 and L2 bands. It would have been obvious to modify King with Turney by incorporating L1 and L2 bands served by the same antenna in order to save space in a mobile device.

***Allowable Subject Matter***

6. Claims 4-5, 11-12 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter: steps of switching and disconnecting/connecting claimed first/second antenna based on noise detected in claimed frequency bands are not taught nor obvious over the prior art.

***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Harry Liu whose telephone number is 571-270-1338. The examiner can normally be reached on Monday -Thursday and every other Friday..

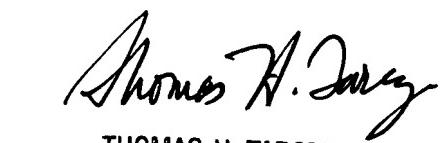
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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas Tarcza can be reached on 571-272-6979. The fax phone number for the organization where this application or proceeding is assigned is 571-270-2338.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.



Harry Liu  
Examiner  
Art Unit 3662  
July 26, 2007



THOMAS H. TARCZA  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 3600